

Based on the results of this watershed study, several conclusions and recommendations regarding the existing condition of the Rock Creek Watershed can be made. Several stormwater management projects and stream valley restoration projects have been analyzed and prioritized; the recommended alternatives are summarized below.

STORMWATER MANAGEMENT FACILITIES

Structural retrofits of two existing stormwater management facilities are recommended:

- Northeast Park
- Redgate Southwest

Nonstructural BMPs are recommended for the existing Redgate Irrigation facility:

STREAM VALLEY RESTORATION

The consultants also recommend six stream valley restoration projects, including the following stream segments:

- Calvin Park
- Maryvale
- Redgate
- Rock Crest
- Rockville High School
- Twinbrook

The restoration of these tributaries involves a number of bioengineering solutions including slope stabilization, toe protection, seeding and planting, gabion baskets and riprap protection.

The selected conceptual design projects are recommended to improve the overall conditions in the portion of the Rock Creek Watershed within the City of Rockville. Since many of these proposed improvements are within the same subwatershed, the combination of improvements will provide optimum benefits for that area. The information for the remaining existing sites that were evaluated during this study but not designed is included for any future studies or projects that would benefit the watershed.

IMPLEMENTATION

The Department of Public Works (DPW) is responsible for implementing the structural projects for watershed management. Projects are added to the City's Capital Improvement Program (CIP) and funded through the City's Stormwater Management Fund. DPW manages improvements for the City's three watersheds – Cabin John Creek, Watts Branch, and Rock Creek. As a result, stormwater management or stream stabilization projects must be planned to meet the needs of the city as a whole. Some projects from this study are therefore given lower priority and have been listed for consideration in future CIPs. Table 4-1 shows the proposed implementation schedule

for the Rock Creek Management Plan and summarizes the expected total costs for the projects. Table 4-1 also includes two additional projects that have been completed.

After the final stormwater management and stream stabilization concepts were completed, the City evaluated the implementation priorities again. The Alsace Lane stream project, because of the public safety threat, remained a high priority. The Redgate Golf course projects were grouped together to minimize disturbance to golf course use, and are also listed as high priority since the risers are in very poor condition. The Rockcrest Tributary Stream project and Northeast Park SWM project are listed as moderate priorities, and are slated to begin design in FY 2003. The two stream projects on private land (Rockville High School and Maryvale Tributary) are considered low priority because they do not threaten dwellings and have high costs for improvements to non-public land. The Calvin Park stream project should be reconsidered in the next watershed study cycle after another evaluation of stormwater management for the drainage area. Additional SWM may affect the stream design.

After adoption of this management plan by the Mayor and Council, DPW will proceed with final design of the projects as they are programmed in the CIP. Extensive neighborhood outreach will be conducted within the specific neighborhoods of each project to help address residents' concerns about public safety, landscaping and appearance, and routine maintenance. City staff also work with residents during construction to minimize noise and disruption. The City Forester will review each final design for compliance with the City's Forest and Tree Preservation Ordinance. Since many of these projects are in public park land, the Parks Manager will continue to be involved in project review as well.

SECTION FOUR

Recommendations

Table 4-1: Rock Creek Watershed Study Project Implementation

Stormwater Management Project Recommendations					
Name of Facility	Rockville Priority Ranking	Estimated Cost – Design & Construction	Drainage Area	FY to be Designed	
Northeast Park	Moderate	\$78,000	51 acres	2003	
Redgate Southwest	High	\$104,000	143 acres	2001	
Redgate Irrigation Ponds (replace riser)	High	\$52,000	25 acres	2001	
<i>Dover Road/WGL</i>	<i>Project constructed in 1998</i>	<i>\$341,000 (Design was contributed by a developer)</i>	<i>205 acres</i>	<i>Completed</i>	
Stream Improvement Project Recommendations					
Stream Reach Location	Rockville Priority Ranking	Estimated Cost – Design & Construction	Length of Proposed Improvements	FY to be Designed	
Twinbrook Trib. – Alsace Lane	High	\$92,000	400 ft.	2001	
Calvin Park	Low	\$100,923	945 ft.	Not programmed	
Redgate Golf Course (spot improvements)	High	\$52,000	620 ft.	2001	
Rockcrest Trib. through Rockcrest Park	Moderate	\$96,000	260 ft.	2003	
Maryvale Trib. upstream of Civic Center	Low	\$126,000	535 ft.	Not programmed	
Rockville High School drainage channel & adjacent stream	Low	\$240,000	770 ft.	Not programmed	
<i>Twinbrook Trib. through Twinbrook Park</i>	<i>Project constructed in summer of 1999 as part of Twinbrook Rec. Center</i>	<i>\$25,000</i>	<i>--</i>	<i>Completed</i>	

Projects in italics have been designed or constructed during the course of the Rock Creek Watershed Study as part of work related to other developments.